

QuickStart Guide

FortiGate 80F Series

Product Registration

Thank you for purchasing a FortiGate. To access:

- Cloud Management
- FortiGuard Updates
- Firmware Upgrades
- Technical Support
- Warranty Coverage

Please register your FortiGate Device:

Vous devez enregistrer le produit:

Debe registrar el producto:

登録のお願い:

请马上注册:

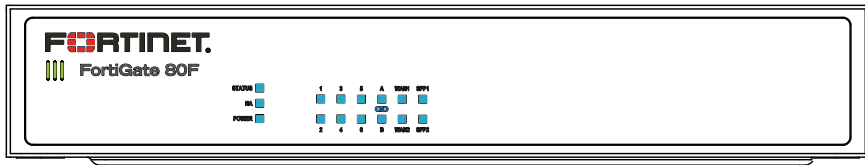
<http://support.fortinet.com>



May 11, 2020

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Box Includes - FG 80F Series



FortiGate 80F/81F/-Bypass



QuickStart Guide



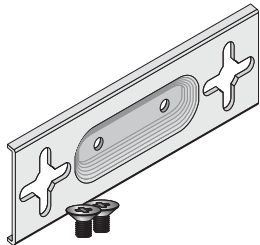
Power Cable



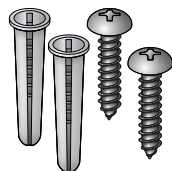
12V DC Power Adapter



Ethernet Cable

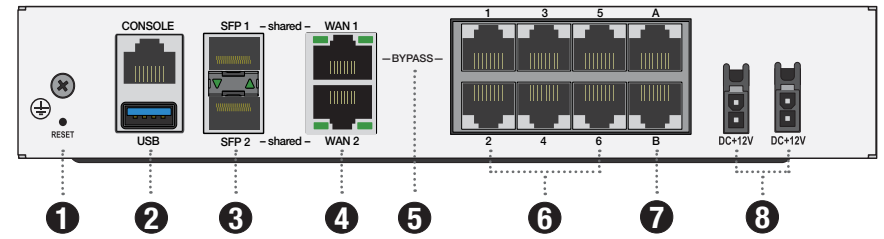


Wall Mount Kit
(Optional)



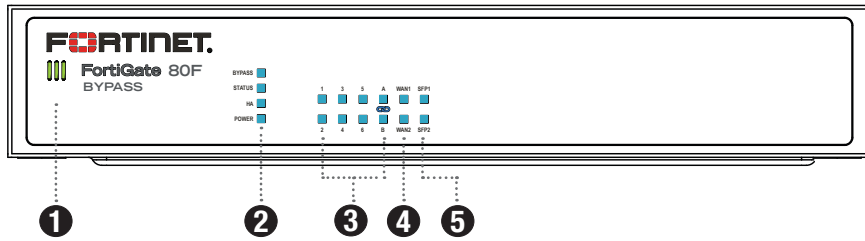
Wall Mount Hardware
(Optional)

Back Panel - FG 80F Series



- 1** RESET (Button) Restores factory default and BLE settings
- 2** Console (RJ-45) CLI management computer interface
USB (USB A) USB 3.0 server port
- 3** SFP Shared Ports 1 & 2 (SFP) 1 Gbps SFP interface
- 4** WAN Shared Ports 1 & 2 (RJ45) 1 Gbps Ethernet interface
- 5** BYPASS (RJ45) 1 Gbps Ethernet interface
(FG 80F-Bypass model only)
- 6** Ports 1 to 6 (RJ-45) 1 Gbps Ethernet interface
- 7** FortiLink Ports A & B (RJ-45) 1 Gbps Ethernet interface
- 8** Power (x2) 12V DC 3A, 100-240V AC 50/60Hz adapters

Front Panel - FG 80F Series



- 1 LOGO**

<p> FortiGate 80F</p> <p>■ Green: The device is on</p> <p>■ Off: The device is off</p>	<p> FortiGate 80F - BYPASS</p> <p>■ Green: The device is on</p> <p>■ Off: The device is off</p>
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- 2 BYPASS**
(FG 80F-Bypass model only)

<p>■ Amber: WAN1 & PORT1 Bypass is active</p> <p>■ Off: WAN1 & PORT1 Bypass is off</p>
--

STATUS

■ Green: Operating normally; BLE is off
⚡ Flashing Green: Booting up
⚡ Flashing Amber: BLE is on

HA

■ Green: Operating in an HA cluster
■ Amber: HA failover
■ Off: Not in an HA cluster

POWER

■ Green: Both power supplies are functioning
■ Amber: One power supply is functioning
■ Off: Power is off

- 3 PORT LINK/ACT**

⚡ Flashing Green: 1Gbps data activity
■ Off: No link established

- 4 WAN**
(WAN & SFP are Shared Ports)

⚡ Flashing Green: 1Gbps data activity
■ Off: No link established

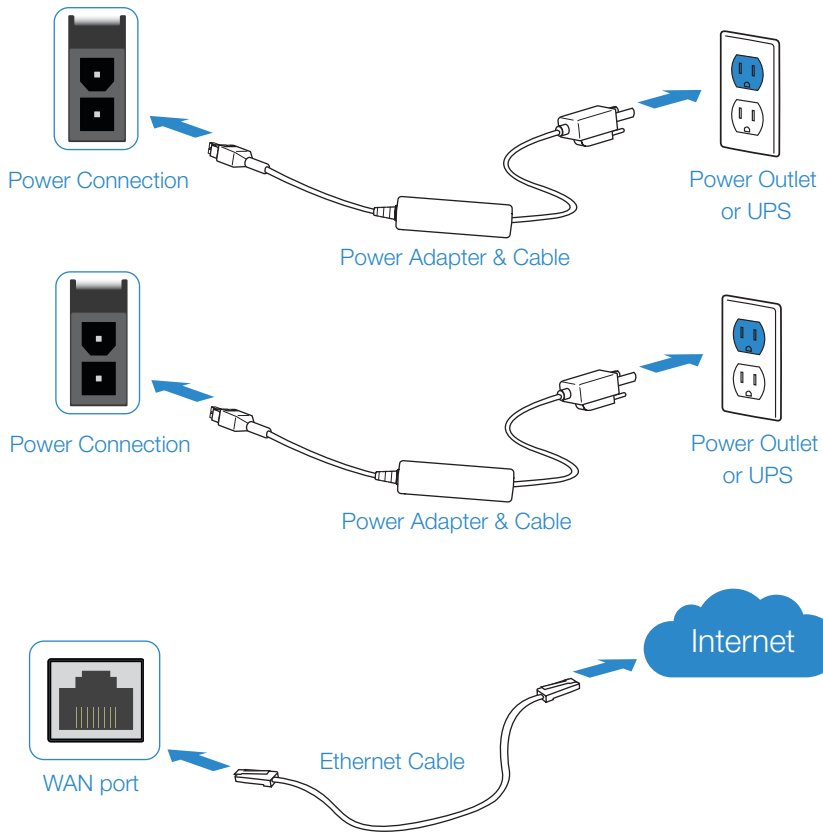
- 5 SFP**

⚡ Flashing Green: 1Gbps data activity
■ Off: No link established

Installation

Your FortiGate includes a wall mount kit and connection cables. Desktop installation, rack mount and slide-rail kits are also available.

Basic Connections

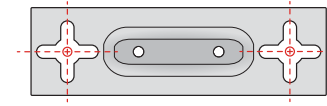


1. Plug in your device to power outlets using the provided power adapters & cables
2. Connect a WAN port to the internet using the supplied Ethernet cable

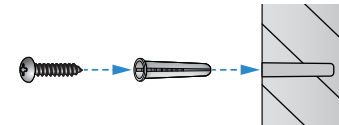
Note: We recommend connecting your FortiGate to an [uninterruptible power supply \(UPS\)](#) in case of a power outage

Wall Mount Option

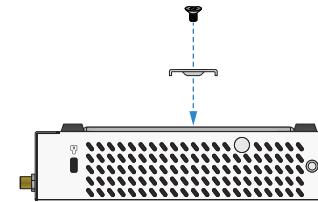
1. Mark the location of the holes using the mounting bracket



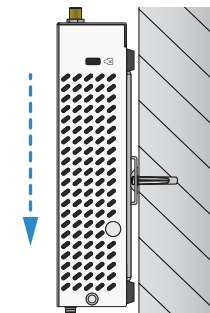
2. Drill holes for the anchors
3. Insert the anchors and then screw in the screws with 2mm exposed



4. Fasten the mounting bracket



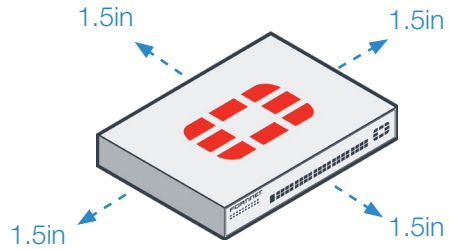
5. Position the device and slide into place



6. Plug the provided power cable into the rear of the unit and then into a grounded electrical outlet or separate power source

Desktop Option

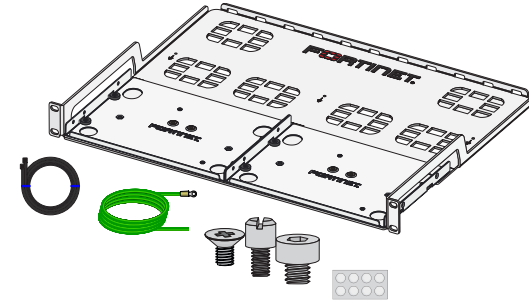
1. Place the unit on a flat, clean and stable surface
2. Ensure there is at least 1.5in of clearance for adequate airflow



3. Plug the provided power cable into the rear of the unit and then into a grounded electrical outlet or separate power source
-

Rack/Rail Mount Option

Fortinet carries a variety of standard and custom rack and rail mount accessories, including a rack mount tray kit, SP-RACKTRAY-02.



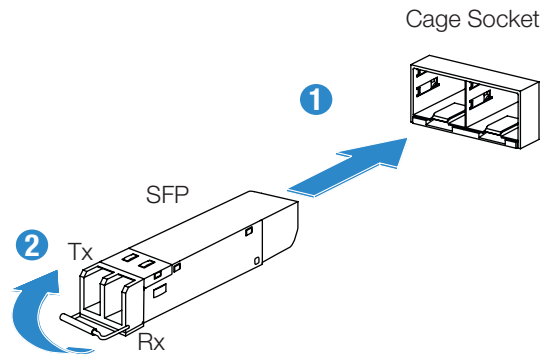
SP-RACKTRAY-02

Ordering: Contact Fortinet to order brackets, rail slide kits, rack mount kits and other accessories, such as a console cable

SFP Ports

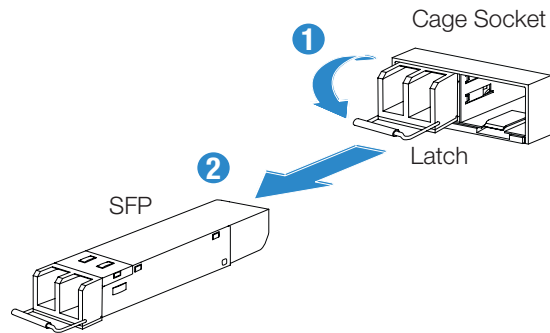
To install the SFP transceivers

1. Slide the SFP into the cage socket until it clicks into place
2. Lift the latch to lock the SFP



To remove the SFP transceivers

1. Lower the latch to unlock the SFP
2. Carefully pull the SFP out of the cage socket



For additional info on SFP's, visit:

support.fortinet.com

Setup Options

Set up your device locally or on the cloud. Choose one of the following options to complete your setup, then configure your device.



A GUI

An **easy-to-use GUI**, compatible with most web browsers. To minimize scrolling, the screen resolution should be at least 1280 x 1024 pixels.



B FortiGate Cloud

FortiGate Cloud is a **cloud-based** infrastructure management solution and log retention service. It provides **centralized reporting**, **traffic analysis**, **configuration management**, and **log retention** without the need for additional hardware and software.



C FortiExplorer

FortiExplorer for iOS is a **user-friendly iOS application** that helps you **configure**, **manage**, and **monitor** appliances. FortiExplorer rapidly provisions, deploys, and monitors Security Fabric components such as **FortiGate**, **FortiWiFi**, and **FortiAP** devices.



D Command Line Interface (CLI)

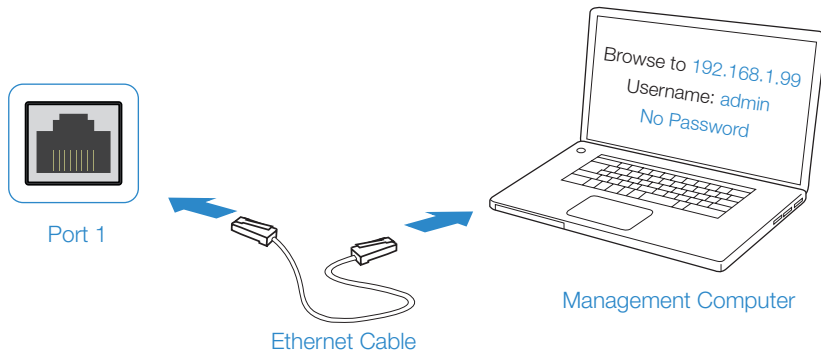
An alternate configuration tool from the web-based manager that uses a **terminal emulation** application to **type commands** or upload batches of commands from a text file or **configuration script**. Requires a console cable (available for purchase).

1. Connect port 1 to the Management Computer using the supplied Ethernet cable

2. Enable DHCP or set the Management Computer's IP and subnet to:

Static IP Address: 192.168.1.1
Subnet Mask: 255.255.255.0

3. Visit 192.168.1.99 in a web browser



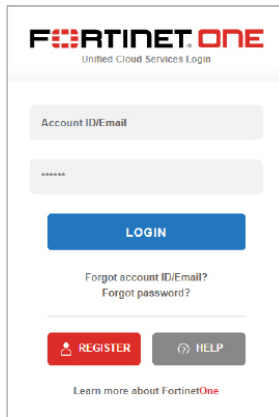
4. Log in with username admin and no password

5. When prompted to register, enter your Fortinet credentials

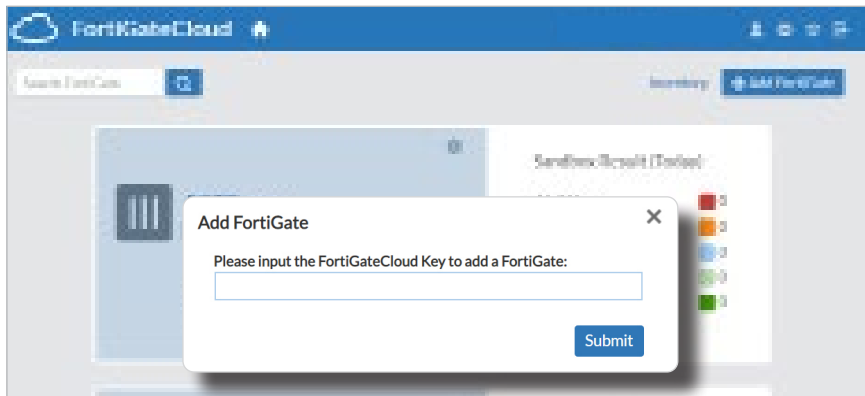
6. The FortiCare Support Status in the FortiOS License Information widget will change to Registered

License Information	
Entitlement	Status
FortiCare Support	Registered
Enhanced Support	8x5 support - expires on 2020/03/08
Virtual Machine	Valid - expires on 2020/03/06
Allocated vCPUs	25% 1 / 4
Allocated RAM	1002 MiB
Firmware & General Updates	Licensed - expires on 2020/03/08
Application Control Signatures	Version 6.00741
Device & OS Identification	Version 1.00084
Internet Service Database Definitions	Version 7.00109
Intrusion Prevention	Licensed - expires on 2020/03/08
IPS Definitions	Version 6.00741
IPS Engine	Version 5.00031
Malicious URLs	Version 2.00430
Botnet IPs	Version 1.00000

1. Log in to forticloud.com using your Fortinet credentials



2. Click **Add FortiGate** and enter the **Cloud Key** located on the **sticker** on your device

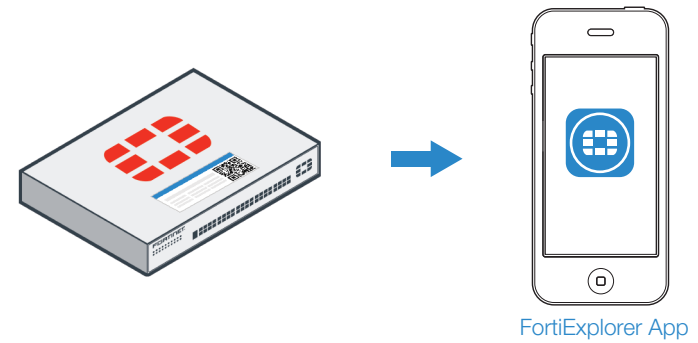


3. You can now manage your device from the cloud

Note: To get a [Fortinet account](http://support.fortinet.com), register at support.fortinet.com

1 Cloud Key Setup

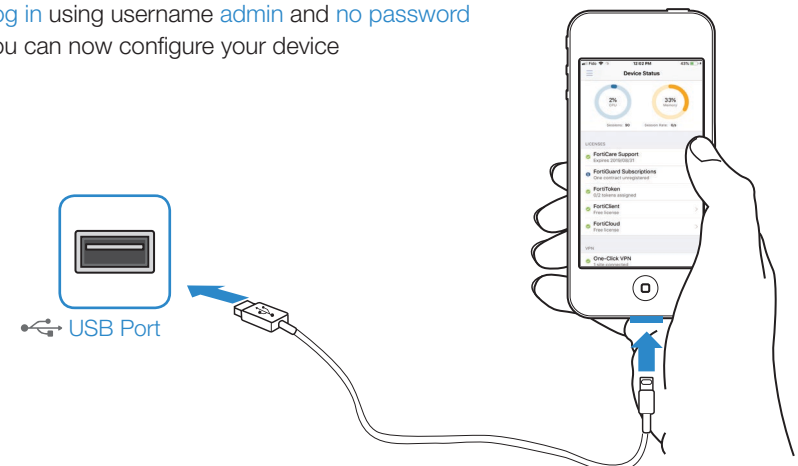
1. [Download](#) and launch the [FortiExplorer iOS App](#)
2. Tap [Devices](#), then tap [Add](#)
3. Select [FortiGate Cloud](#) and log in using your [Fortinet credentials](#)
4. [Scan](#) the [QR code](#) on the Cloud Key
5. [Log in](#) to your device using username [admin](#) and [no password](#)
6. You can now configure your device



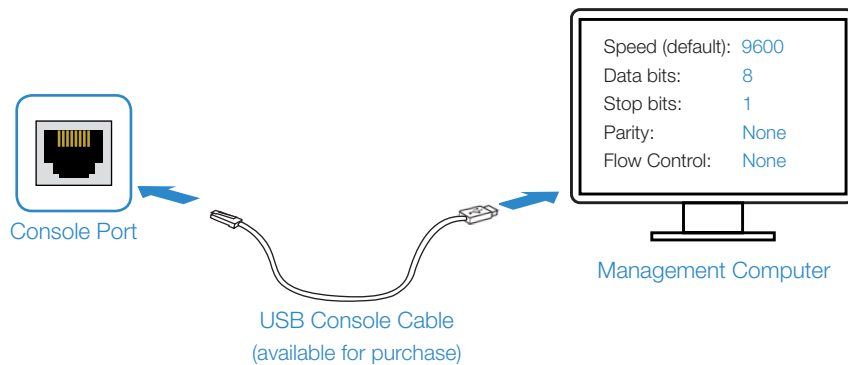
Setup

2 USB Setup

1. [Download](#) and launch the [FortiExplorer iOS App](#)
2. Connect your [Apple Lightning to USB cable](#) to the FortiGate/FortiWiFi [USB port](#)
3. [Tap](#) your device when it appears in [FortiExplorer](#)
4. [Log in](#) using username [admin](#) and [no password](#)
5. You can now configure your device



D CLI



1. Connect the **Console Port** with a console cable to the **Management Computer**
2. Start a **terminal program** on the **Management Computer** and select an available **COM Port** using the following default settings:

Baud rate: 9600
Data bits: 8
Parity: None
Stop bits: 1
Flow control: None

3. Log in using username **admin** and **no password**
4. You can now configure your device

```
FortiGate # ?
config      Configure object.
get         Get dynamic and system information.
show        Show configuration.
diagnose    Diagnose facility.
execute     Execute static commands.
exit        Exit the CLI.

FortiGate # config ?
alertemail  Alert email configuration.
antivirus   AntiVirus configuration.
application Application control configuration.
client-reputation Client reputation tracking configuration.
dlp         DLP configuration.
endpoint-control Endpoint control configuration.
firewall    Firewall configuration.
ftp-proxy   FTP proxy configuration.
gui         GUI configuration.
icap        ICAP client configuration.
imp2p       IM & P2P policy configuration.
ips         IPS configuration.
--More--
```

Note: Type **?** for a **list of commands**. Type a command with **?**, such as **config ?** to list the options. For advanced options, visit support.fortinet.com

Resources

Refer to the following resources to continue your FortiGate setup.

FortiGate Documentation Library

Up-to-date hardware and software guides

<https://docs.fortinet.com/fortigate>

Fortinet Customer Service & Support

Access knowledge bases, resource libraries and contact support

<https://support.fortinet.com/>

Fortinet Video Tutorials

FortiOS Tips, Web GUI tutorials, SD-WAN tricks and more

<http://video.fortinet.com>

FortiGuard Labs

Discover FortiGuard's Zero-Day Research, Weekly Threat Briefs and Threat Lookups

<https://fortiguard.com/>

FortiGate Cloud

Analyze centralized reporting, traffic analysis, configuration management and logs

<https://forticloud.com>

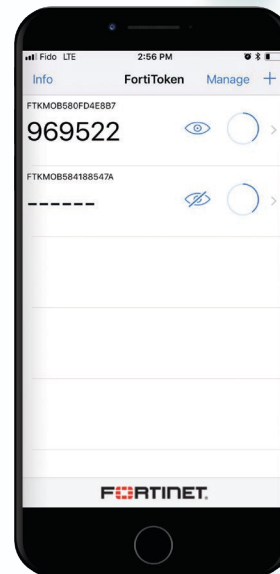
Register for Free Licenses & Services

Simplify and leverage provisioning, management, and analytics with FortiGate Cloud's centralized administration. Extend online logs and analysis to 1 full year with a subscription.

FortiGate Cloud 7 Days of Data Retention

Make remote access simple. Use yourcompany.fortiddns.com instead of a hard-to-remember IP address.

Fortinet DDNS Service



Enable two-factor authentication for remote access using mobile devices. Available for iOS and Android devices. Get extra tokens from your Fortinet reseller.

2 FortiToken Mobile Licenses

Services with FortiCare Subscriptions

Global 24/7 support for your Fortinet hardware & software

Get the latest product security updates and features. Stay with us and see the product evolve.

Firmware Updates

Use cellphone technology as backup Internet connection. We are always adding support for new third party 3G/4G+ devices.

USB Modem Database Updates

Set up policies and track activities based on geography. Your **FortiGate** will intelligently identify where an IP is originated or destined.

Geo-IP Database Updates

Create policies to allow, deny, or restrict access to applications or entire categories of applications. You can use application control to keep malicious, risky, and unwanted applications out of your network.

Application Control Database Updates

Identify device type and OS information. Great for organizations who want to enforce device-based policies so that employees can bring in their devices.

Device Signatures Database Updates

Internet service database objects consist of IP addresses, port numbers, and protocols used by Internet services. Simplify the management and control of cloud-based applications.

Internet Service Database Updates

Fortinet Bundled Services with FortiCare

Fortinet Bundled Services	360 Protection	Enterprise Protection	UTM	Threat Protection
FortiCare	ASE	24x7	24x7	24x7
FortiGuard App Control Service	✓	✓	✓	✓
FortiGuard IPS Service	✓	✓	✓	✓
FortiGuard Advanced Malware Protection (AMP)	✓	✓	✓	✓
FortiGuard Web Filtering Service	✓	✓	✓	
FortiGuard Anti-Spam Service	✓	✓	✓	
FortiGuard Security Rating Service	✓	✓		
FortiGuard Industrial Service	✓	✓		
FortiCASB SaaS-only Service	✓	✓		
FortiConverter Service	✓			
SD-WAN Cloud Assisted Monitoring	✓			
SD-WAN Overlay Controller VPN Service	✓			
FortiAnalyzer Cloud	✓			
FortiManager Cloud	✓			

The Fortinet Security Fabric

Broad

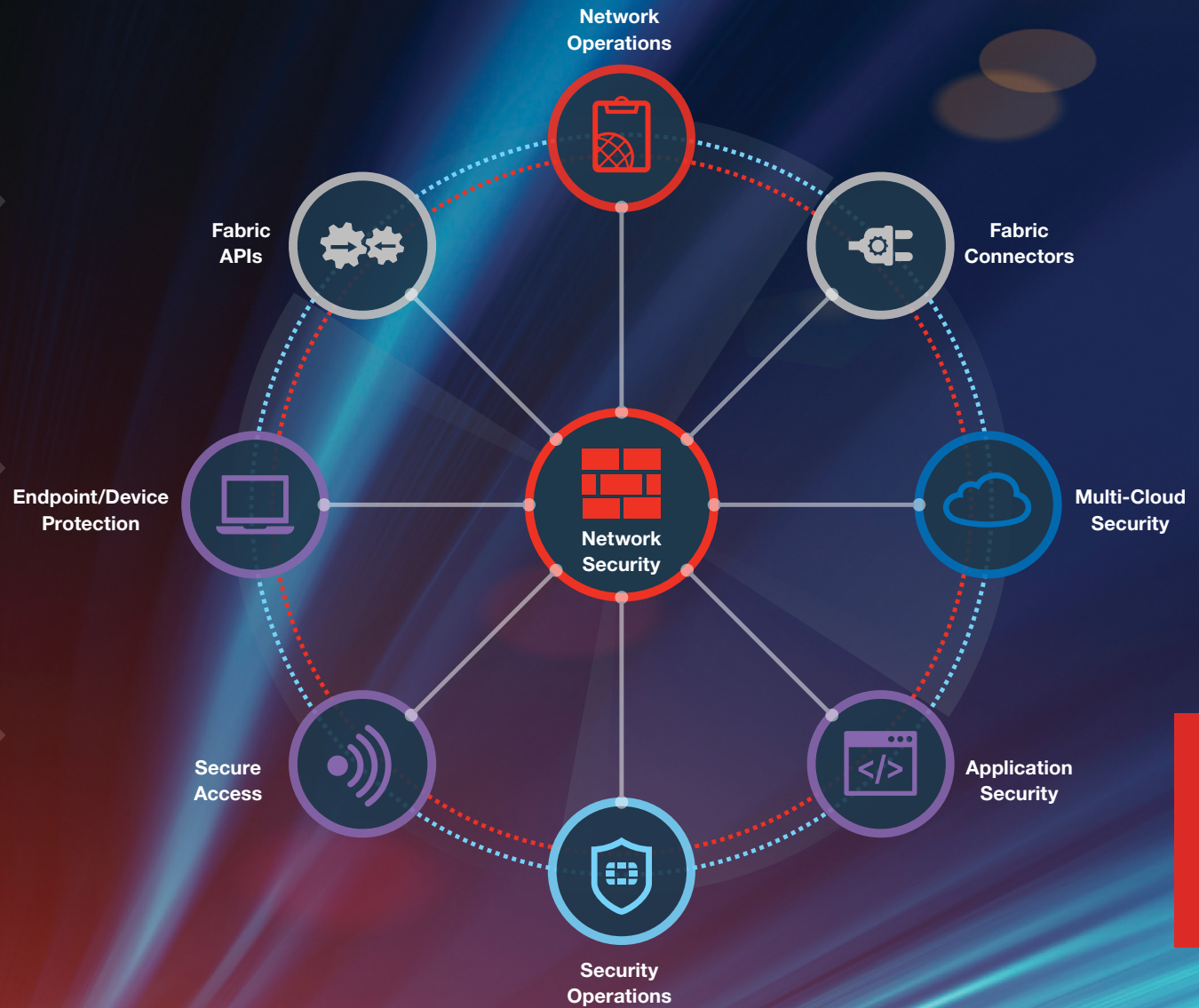
Visibility of the entire digital attack surface

Integrated

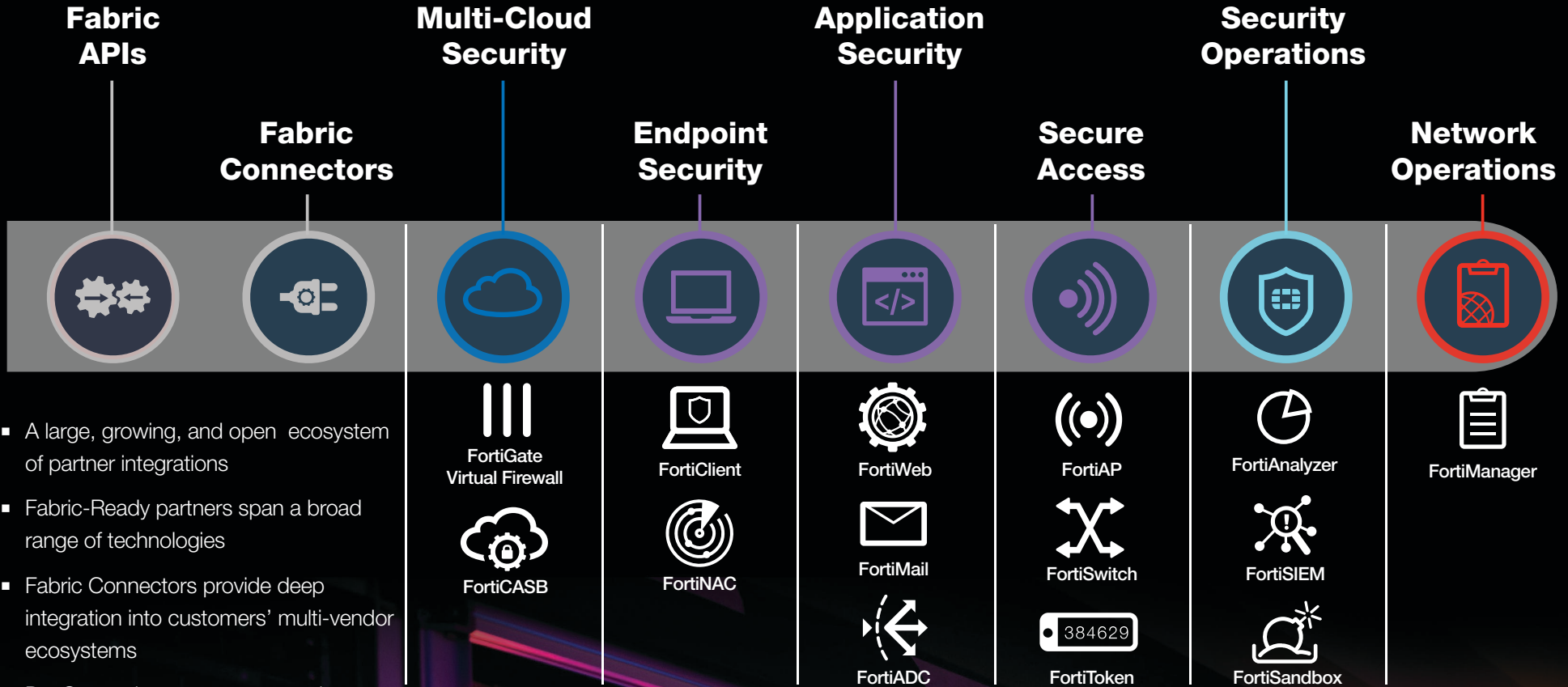
AI-driven breach prevention across all devices, networks, and applications

Automated

Operations, orchestration and response

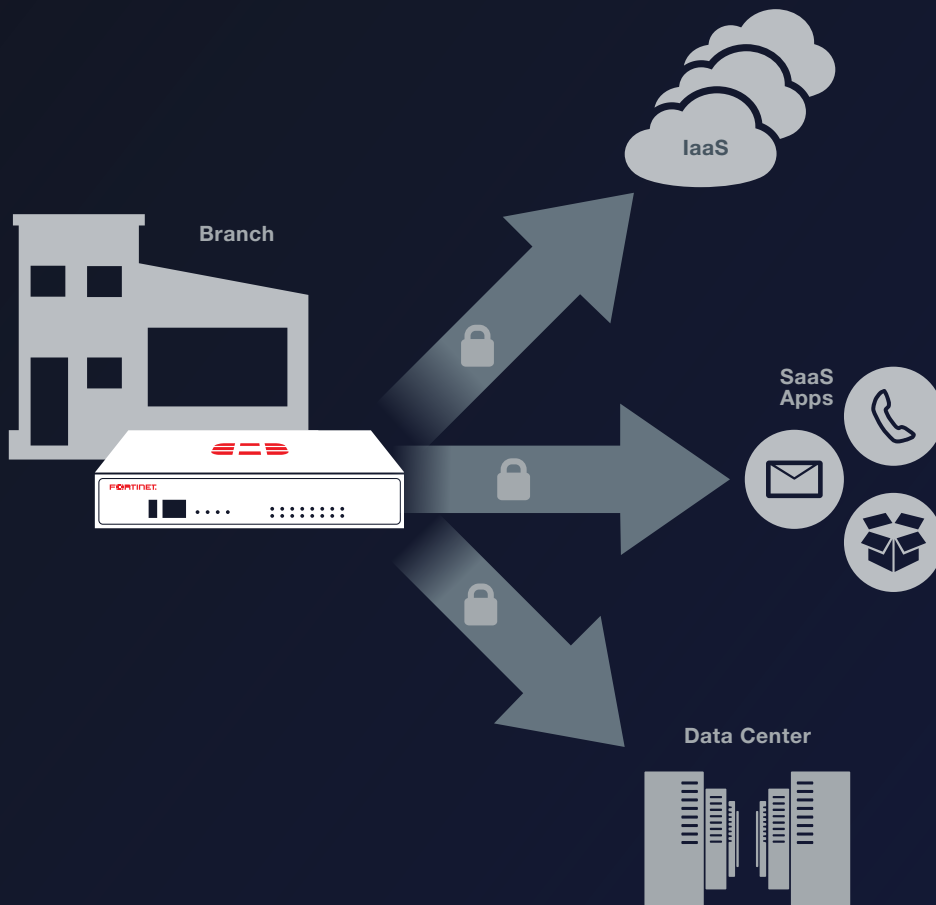


Other Fabric Solutions



Solution Spotlight: Secure SD-WAN

NGFW with built-in, best-of-breed SD-WAN capability enables digital transformation at the enterprise branch.



SD-WAN FortiGate 61E

Products

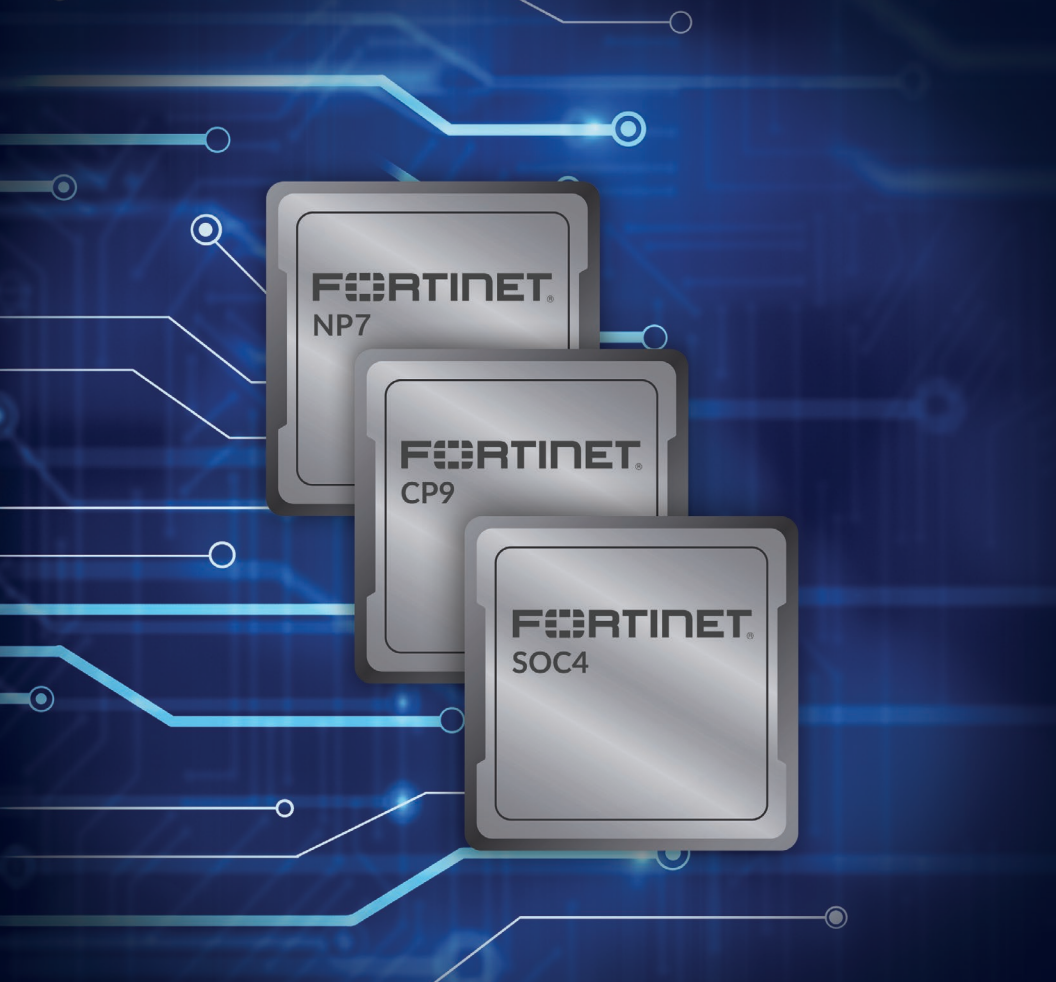
- FortiGate NGFW (at FortiOS 5.6 & above)
- FortiManager

Key Features

- Application-aware steering
- Automated WAN path intelligence
- Single-pane-of-glass management with zero-touch provisioning
- SD-WAN features include in base license

Benefits

- High application performance
- Reduced WAN OPEX
- Safe Internet access for branch sites
- Reduced complexity, easier management



Fortinet Security Processors

Specialized chip design delivers more processing power

Fortinet’s purpose-built architecture delivers extremely high throughput and exceptionally low latency. These purpose-built security processors radically boost performance and scalability to enable the fastest network security appliances available.

Most Certified in the Industry

Fortinet is the only network security vendor to earn independent certifications across all core security technologies

Fortinet demonstrates our ability to consolidate multiple security technologies while still meeting the highest standards of performance and accuracy.



About Fortinet

Corporate Overview

Forward looking market leadership

Fortinet pioneered an innovative, high performance network security solution. We address the fundamental problems of an increasingly bandwidth-intensive network environment and a more sophisticated IT threat landscape. We are a leading provider of network security appliances and the leader in Unified Threat Management, or UTM solutions.

Fortinet is a worldwide leading provider of UTM appliances, with a 17% year over year growth in the UTM security appliance market according to IDC Q4 2018.



Cautions and Warnings

Environmental specifications

Ambient operating temperature: 0°C to 40°C

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude).

Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

Safety

Battery – Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SRB14.013 applies to batteries.

Batterie – Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. 14 peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SRB14.013 s'applique aux batteries.

警告
本電池如果更換不正確會有爆炸的危險
請依製造商說明書處理用過之電池

CAUTION:
There is a danger of explosion if a battery is incorrect replaced. Replace only with the same or equivalent type.

Dispose batteries of according to the manufacturer's instructions.

Disposing a battery into fire, a hot oven, mechanically crushing, or cutting it can result in an explosion.

Leaving a battery in an extremely hot environment can result in leakage of flammable liquid, gas, or an explosion.

If a battery is subjected to extremely low air pressure, it may result in leakage of flammable liquid, gas, or an explosion.

WARNING:
Lithium-Batterie Achtung: Explosionsgefahr bei fehlerhafter Batteriewechsel. Ersetzen Sie nur den gleichen oder gleichwertigen Typ. Batterien gemäß den Anweisungen des Herstellers entsorgen.

Beseitigung einer BATTERIE in Feuer oder einen heißen Ofen oder mechanisches Zerkleinern oder Schneiden einer BATTERIE, die zu einer EXPLOSION führen kann.

Verlassen einer BATTERIE in einer extrem hohen Umgebungstemperatur, die zu einer EXPLOSION oder zum Austreten von brennbarer Flüssigkeit oder Gas führen kann.

Eine BATTERIE, die einem extrem niedrigen Luftdruck ausgesetzt ist, der zu einer EXPLOSION oder zum Austreten von brennbarer Flüssigkeit oder Gas führen kann.

Caution: Shock Hazard. Disconnect all power sources.
Attention: Risque d'électrocution. Débranchez toutes les sources d'alimentation.

This product is intended to be supplied by a Listed pluggable A via Class I external power supply adapter by means of a power cord connected to a socket-outlet with earthing connection.

Ce produit est destiné à être alimenté par un adaptateur d'alimentation externe de classe I par l'intermédiaire d'un cordon d'alimentation enfichable de classe A qui doit être branché à une prise de courant avec terre.

Regulatory Compliance

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.

WARNING: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Innovation, Science and Economic Development (ISED) – Canada

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSSI(s). Operation is subject to the following two conditions:
1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:
1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20cm de distance entre la source de rayonnement et votre corps.

Antenna	Qty	Antenna Type	Connector	Gain (dBi)
BT (Internal)	1	PIFA	IPEX	1.3

European Conformity (CE) - EU

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



The product transmits within the frequency ranges and less than or equal to the power listed below:

2402-2480MHz less than 20dBm

This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Simplified EU Declaration of Conformity

This declaration is only valid for Fortinet products (including combinations of software, firmware and hardware) provided by Fortinet or Fortinet's authorized partners to the end customer directly for use within the EU or countries that have implemented the EU Directives and/or spectrum regulation. Any Fortinet products not obtained directly from Fortinet or Fortinet's authorized partners may not comply with EU Directives and Fortinet makes no assurances for such products.

Български

Този продукт е в съответствие с Директива 2014/53/ЕС.

Česky

Tento produkt je v souladu se směrnici 2014/53/EU.

Dansk

Dette produkt er i overensstemmelse med direktiv 2014/53/EU.

Deutsch

Dieses Produkt entspricht der Richtlinie 2014/53/EU.

Eesti

See toode vastab direktiivile 2014/53/EL.

English

This product is in compliance with Directive 2014/53/EU.

Español

Este producto cumple con la Directiva 2014/53/UE.

Ελληνική

Το προϊόν αυτό συμμορφώνεται με την Οδηγία 2014/53/ΕΕ.

Français

Ce produit est conforme à la Directive 2014/53/UE.

Hrvatski

Ovaj proizvod je u skladu s Direktivom 2014/53/EU.

Italiano

Questo prodotto è conforme alla Direttiva 2014/53/UE.

Latviski

Questo prodotto è conforme alla Direttiva 2014/53/UE.

Lietuvių

Šis gaminyš atitinka direktyvą 2014/53/ES.

Malti

Dan il-prodott huwa konformi mad-Direttiva 2014/53/UE.

Magyar

Ez a termék megfelel a 2014/53/EU irányelvnek.

Nederlands

Dit product is in overeenstemming met Richtlijn 2014/53/EU.

Norsk

Dette produktet er i samsvar med direktiv 2014/53/EU.

Polski

Ten produkt jest zgodny z dyrektywą 2014/53/UE.

Português

Este produto está em conformidade com a Diretiva 2014/53/UE.

Rumunski

Acest produs este în conformitate cu Directiva 2014/53/UE.

Slovensky

Tento produkt je v súlade so smernicou 2014/53/EÚ.

Slovensko

Ta izdelek je v skladu z Direktivo 2014/53/EU.

Suomi

Tämä tuote on direktiivin 2014/53/EU mukainen.

Svenska

Denna produkt överensstämmer med direktiv 2014/53/EU.

Note: The full Declaration of Conformity for this product is available in the link below:
<https://site.fortinet.com/ProductRegulatory/EU>

Voluntary Control Council for Interference (VCCI) – Japan

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V C C I – B

Product Safety Electrical Appliance & Material (PSE) – Japan

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The presence conditions of the restricted substance (BSMI RoHS table) are available at the link below:
取用物質含有情況表 (RoHS Table) 請到以下 網址 下載:
<https://www.fortinet.com/bsmi>

英屬蓋曼群島防務特網股份有限公司台灣分公司
地址：台北市內湖區行愛路176號2樓
電話：(02) 27961666

National Telecommunications Commission (NCC) – Taiwan

NCC警語
根據NCC低功率電波輻射性電機管理辦法規定：

第十二條 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

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前項合法通信，指依電信法規定作業之無線電通信。
低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

高增益指向性天線只得應用於固定式點對點系統。
本產品電磁波曝露量 (MPE) 標準值1mW/cm2，建議使用時至少距離人體20cm

Fortinet Product License Agreement / EULA and Warranty Terms

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Version 2, June 1991

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